

**0140940950 BLUE ANCHOR BROOK AT ELM, NJ**

MULLICA RIVER BASIN

LOCATION.--Lat 39°41'17", long 74°50'05" referenced to North American Datum of 1983, Winslow Township, Camden County, NJ, Hydrologic Unit 02040301, at bridge on U.S. Route 30 at Elm, at outlet of Winslow Lake, and 1.4 mi upstream from confluence with Pump Branch.

DRAINAGE AREA.--4.86 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow and miscellaneous measurements, water years 1991 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

| <b>Date</b>  | <b>Discharge,<br/>in ft<sup>3</sup>/s</b> |
|--------------|---|
| Nov 26, 2007 | 1.35                                      |
| Jan 7, 2008  | 2.64                                      |
| Jan 8, 2008  | 2.81                                      |
| Jan 25, 2008 | 2.65                                      |
| Feb 6, 2008  | 3.03                                      |
| Apr 18, 2008 | 2.80                                      |
| May 19, 2008 | 2.64                                      |
| Jun 30, 2008 | 1.92                                      |
| Aug 18, 2008 | 3.09                                      |
| Sep 3, 2008  | 0.51                                      |

## 0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Cooperative Network Site Descriptor: Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated.]

| Date      | Time | Instantaneous discharge, ft <sup>3</sup> /s (00061) | Turbidity white light, det ang 90+/-30 corrctd NTRU (63676) | UV absorbance, 254 nm, wat flt units /cm (50624) | UV absorbance, 280 nm, wat flt units /cm (61726) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO <sub>3</sub> (00900) |
|-----------|------|---|---|--|--|------------------------------------|--------------------------------|---|---|---|---------------------------------|-----------------------------------|--|
| Nov 26... | 1130 | 1.4   | 1.8   | .133   | .108   | 764                                | 11.5                           | 95  | 6.7   | 96  | 13.5                            | 7.2                               | 14   |
| Feb 06... | 1100 | 3.0   | 9.0   | .140   | .113   | 751                                | 10.4                           | 96  | 6.6   | 103   | 20.0                            | 11.2                              | 15   |
| May 19... | 0940 | 2.6   | 5.6   | .298   | .238   | 747                                | 8.5                            | 90  | 6.6   | 95  | 14.0                            | 17.2                              | 14   |
| Aug 18... | 1120 | 3.1   | 3.4   | .243   | .191   | 760                                | 7.1                            | 87  | 6.5   | 82  | 27.0                            | 25.7                              | 14   |

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated.]

| Date      | Calcium water, fltrd, mg/L (00915) | Magnesium, water, fltrd, mg/L (00925) | Potassium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410) | Chloride, water, fltrd, mg/L (00940) | Fluoride, water, fltrd, mg/L (00950) | Silica, water, fltrd, mg/L as SiO <sub>2</sub> (00955) | Sulfate water, fltrd, mg/L (00945) | Residue water, fltrd, sum of constituents mg/L (70301) | Residue on evap. at 180degC wat flt mg/L (70300) | Residue total non-filterable, mg/L (00530) | Ammonia + org-N, water, fltrd, mg/L as N (00623) |
|-----------|------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|---|--------------------------------------|--------------------------------------|--|------------------------------------|--|--|--|--|
| Nov 26... | 3.13                               | 1.59                                  | 2.04                                  | 9.40                               | 11  | 15.0                                 | <.12                                 | 3.1  | 8.11                               | 51   | 59   | 2  | .43  |
| Feb 06... | 3.40                               | 1.56                                  | 1.53                                  | 11.5                               | 11  | 16.3                                 | <.12                                 | 3.1  | 7.30                               | 54   | 56   | 9  | .26  |
| May 19... | 3.04                               | 1.64                                  | 1.68                                  | 10.5                               | 9.4   | 14.7                                 | <.12                                 | 3.3  | 4.71                               | 46   | 66   | 7  | .67  |
| Aug 18... | 2.84                               | 1.68                                  | 1.65                                  | 7.98                               | 11  | 11.3                                 | <.12                                 | 2.4  | 8.21                               | E43  | 48   | 3  | .43  |

## 0140940950 BLUE ANCHOR BROOK AT ELM, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated.]

| Date         | Ammonia<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00608) | Nitrate<br>+<br>nitrite<br>water<br>fltrd,<br>mg/L<br>as N<br>(00631) | Partic-<br>ulate<br>nitro-<br>gen,<br>susp,<br>water,<br>mg/L<br>(49570) | Total<br>nitro-<br>gen,<br>water,<br>fltrd,<br>mg/L<br>(00602) | Total<br>nitro-<br>gen,<br>water,<br>unfltrd<br>mg/L<br>(00600) | Ortho-<br>phos-<br>phate,<br>water,<br>fltrd,<br>mg/L<br>as P<br>(00671) | Phos-<br>phorus,<br>water,<br>fltrd,<br>mg/L<br>as P<br>(00666) | Phos-<br>phorus,<br>water,<br>unfltrd<br>mg/L<br>as P<br>(00665) | Total<br>carbon,<br>suspnd<br>sedimnt<br>total,<br>mg/L<br>(00694) | Inor-<br>ganic<br>carbon,<br>suspnd<br>sedimnt<br>total,<br>mg/L<br>(00688) | Organic<br>carbon,<br>suspnd<br>sedimnt<br>total,<br>mg/L<br>(00689) | Organic<br>carbon,<br>water,<br>fltrd,<br>mg/L<br>(00681) | Boron,<br>water,<br>fltrd,<br>µg/L<br>(01020) |
|--------------|--|---|--|--|---|--|---|--|--|---|--|---|---|
| <b>Nov</b>   |  |   |  |  |   |  |   |  |  |   |  |   |   |
| <b>26...</b> | .205   | .29   | .06  | .72  | .79   | <.010  | .015  | .029   | .6   | <.04  | .6   | 2.2   | 14  |
| <b>Feb</b>   |  |   |  |  |   |  |   |  |  |   |  |   |   |
| <b>06...</b> | .076   | .73   | .25  | .99  | 1.2   | <.010  | .011  | .046   | 2.2  | <.04  | 2.2  | 2.9   | 13  |
| <b>May</b>   |  |   |  |  |   |  |   |  |  |   |  |   |   |
| <b>19...</b> | .148   | .11   | .34  | .78  | 1.1   | <.010  | .034  | .126   | 2.3  | <.04  | 2.3  | 4.3   | 14  |
| <b>Aug</b>   |  |   |  |  |   |  |   |  |  |   |  |   |   |
| <b>18...</b> | .054   | <.04  | .12  | --   | --  | E.003  | .030  | .054   | .8   | <.04  | .8   | 5.4   | 15  |